

**CLASSIFICATION SUPPORT SYSTEM AND
METHOD FOR FRAGMENTED IP PACKETS**

ABSTRACT OF THE DISCLOSURE

5

A wire-speed forwarding platform and method for supporting multifield
classification of a packet fragmented into a plurality of fragments in the wire-speed
forwarding platform, comprising: receiving a fragment of the fragmented packet at
the forwarding platform and deriving a key from one or more fields of the received
10 fragment; and performing multifield classification of the received fragment by
matching the key to a rule out of a plurality of rules, the rule comprising a plurality
of fields including at least one field for specifying whether the received fragment's
fragmentation characteristics are to be applied when performing the multifield
classification.

15